Regional HIV/AIDS Epidemiologic Profile of Cambridge, Massachusetts: 2012

Recent changes to the presentation of Massachusetts HIV/AIDS surveillance data

Effective January 1, 2011, the Massachusetts Department of Public Health (MDPH). Bureau of Infectious Diseases, HIV/AIDS fact sheets, epidemiologic reports and other HIV data presentations have been updated to remove all HIV/AIDS cases who were first diagnosed in another state before being reported in Massachusetts. As of January 1, 2012, this resulted in the removal of 2,924 HIV/AIDS cases, of which 808 have died and 2,116 were living. These persons living with HIV/AIDS may still continue to reside and receive care in the Commonwealth. The total number of persons living with HIV/AIDS, irrespective of location of diagnosis, is the basis for MDPH service planning. This change is partially a result of increased activities required by the Centers for Disease Control and Prevention (CDC) for de-duplication among states in an effort to identify cases that are counted multiple times in the National HIV/AIDS Surveillance System. The cases are assigned to the state that reports the earliest date of AIDS diagnosis if available. If the case has not progressed to AIDS, the case is assigned to the state with the earliest HIV diagnosis date. Please note that all previous HIV/AIDS fact sheets, data reports and presentations include cases that may have been first diagnosed in another state.

Also effective January 1, 2011, the MDPH HIV/AIDS fact sheets, epidemiologic reports. and other data presentations have been updated to eliminate the presumed heterosexual exposure mode category for males; those cases have been reassigned to the no identified risk (NIR) exposure mode category. The presumed heterosexual exposure mode category was used with the intention of identifying HIV exposure mode for females when sex with males is the only reported risk factor, there is no evidence of current or past injection drug use (IDU), and behavioral risk and HIV status information about male sexual partners are unknown. Twenty-nine percent of females living with HIV/AIDS and 40% of recent female HIV diagnoses are reported in the presumed heterosexual exposure mode category. The application of the presumed heterosexual exposure mode category to males is overly inclusive in that female to male HIV transmission is biologically less probable, and there are alternate exposure modes that are possible for males, including sex with other men (MSM) or IDU. The CDC reports males diagnosed with HIV/AIDS who report sex with females as their only risk factor, without corresponding partner risk or HIV status information, in the NIR exposure mode category. This revision to report presumed heterosexual male HIV/AIDS cases as NIR will bring Massachusetts HIV/AIDS case reporting for males in alignment with CDC standards. The MDPH will maintain presumed heterosexual and heterosexual exposure mode categories for females.

Table 1. Total number of people reported with HIV infection or AIDS¹ by mortality status on December 31, 2011: Cambridge, Massachusetts²

	N	%
People Living with HIV/AIDS	414	57%
People Reported with HIV or AIDS who are Deceased	309	43%
Total Number of People Reported with HIV Infection or		
AIDS	723	100%

¹ Does not include individuals diagnosed with HIV infection (non-AIDS) who died prior to January 1, 1999 or who were not in care on January 1, 1999
² Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/12

Table 2. Average annual rate of HIV infection diagnosis from 2008 to 2010 and HIV/AIDS prevalence rate on 12/31/11¹: Cambridge, Massachusetts²

Average annual HIV diagnosis rate from 2008–2010	Average rate per 100,000	Average annual number of HIV diagnoses
Cambridge, MA	16.5	17.3
Massachusetts Total	10.3	664.7

HIV/AIDS prevalence rate		Number of people
on 12/31/11	Rate per 100,000	living with HIV/AIDS
Cambridge, MA	393.7	414
Massachusetts Total	277.5	18,170

¹ The denominators for rate calculations are from the 2010 Census, Summary File 1.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/12

² Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Table 3. People living with HIV/AIDS¹, deaths among people reported with HIV/AIDS, and newly diagnosed HIV infections by year²: 2001–2010, Cambridge, Massachusetts³

Year	HIV/AIDS Prevalence	Deaths among those with HIV/AIDS	Diagnosis of HIV Infection
2004	200	7	40
2001	289	<u>/</u>	19
2002	296	7	14
2003	308	9	21
2004	324	6	22
2005	339	5	20
2006	350	7	18
2007	363	2	15
2008	377	1	15
2009	395	3	21
2010	407	4	16

¹ Number of people living with HIV/AIDS on 12/31 of each year

Data source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/12

²Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for

the most recently available ten-year period after the implementation of HIV infection reporting in 1999.
³ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Table 4. People diagnosed with HIV infection from 2008–2010¹ and people living with HIV/AIDS on December 31, 2011 by gender, place of birth, race/ethnicity, exposure mode, age at HIV infection diagnosis and current age: Cambridge, Massachusetts²

	HIV Infection Diagr	oses	PLWH/A	
Gender:	N	%	N	%
Male	44	85%	313	76%
Female	8	15%	101	24%
Place of Birth:	N	%	N	%
US	31	60%	251	61%
Puerto Rico/US Dependency ³	 ⁷	⁷	14	3%
Non-US	7	7	149	36%
Race/Ethnicity:	N	%	N	%
White (non-Hispanic)	21	40%	185	45%
Black (non-Hispanic)	23	44%	175	42%
Hispanic/Latino	6	12%	44	11%
Exposure Mode:	N	%	N	%
Male-to-male sex (MSM)	25 ⁷	48%	182	44%
Injection Drug Use (IDU)		 ⁷	45	11%
MSM/IDU	- ⁷	 ⁷	13	3%
Heterosexual Sex	7	 ⁷	45	11%
Other	 ⁷	7	15	4%
Total Undetermined	17	33%	114	28%
 Presumed Heterosexual Sex⁴ 	6	12%	34	8%
Undetermined ⁵	11	21%	80	19%
Age:	N	%	N	%
	At Diagnosis	7	On December 31,	2011
Under 13	 ′	7	' ⁷	' 7
13 to 19	0 7	0%		
20 to 24	<i>'</i> 7	'	5	1%
25 to 29		 ⁷	11	3%
30 to 34	7	13%	15	4%
35 to 39	6	12%	30	7%
40 to 44	5	10%	53	13%
45 to 49	13	25%	75	18%
50 to 54	6	12%	77	19%
55 to 59	⁷	⁷	66	16%
60+	 ⁷	 ⁷	77	19%
Total ⁶	52	100%	414	100%

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

² Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

³ Ninety-eight percent of people diagnosed with HIV infection from 2008–2010 who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, 1% were born in Guam and 1% were born in an unknown dependency.

⁴ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁵ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁶ Total includes Asian/Pacific Islander, American Indian/Alaska Native, other and unspecified race/ethnicity.

⁷ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Table 5. People living with HIV/AIDS on December 31, 2011 by gender and race/ethnicity: Cambridge, Massachusetts¹

	Male		Female	9
Race/Ethnicity:	N	%	N	%
White (non-Hispanic) Black (non-Hispanic) Hispanic/Latino Total ²	165 100 39 313	53% 32% 12% 100%	20 75 5 101	20% 74% 5% 100%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

Table 6. People living with HIV/AIDS on December 31, 2011 by gender and exposure mode: Cambridge, Massachusetts¹

	Male		Female	е
Exposure Mode:	N	%	N	%
Male-to-male sex (MSM)	182	58%	N/A	N/A
Injection drug use (IDU)	27	9%	18	18%
MSM/IDU	13	4%	N/A	N/A
Heterosexual sex	17	5%	28	28%
Other	9	3%	6	6%
Total Undetermined	65	21%	49	49%
 Presumed heterosexual sex² 	N/A	N/A	34	34%
 Undetermined³ 	65	21%	15	15%
Total	313	100%	101	100%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Total includes Asian/Pacific Islander, American Indian/Alaska Native, other and unspecified race/ethnicity.

² Includes female sex with male of unknown HIV status or risk. This category is limited to females.

³ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

N/A=Not Applicable

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

Table 7. People diagnosed with HIV infection by gender and year of diagnosis: Cambridge, Massachusetts¹, 2001–2010²

N % N % 2001 12 63% 7 37% 2002 9 64% 5 36% 2003 17 81% 4 19% 2004 19 86% 3 14% 2005 15 75% 5 25% 2006 12 67% 6 33% 2007 10 67% 5 33% 2008 12 80% 3 20% 2009 19 90% 2 10%			Female			
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2004 19 86% 3 14% 2005 15 75% 5 25% 2006 12 67% 6 33% 2007 10 67% 5 33% 2008 12 80% 3 20%	14	36%	5	64%	9	2002
2005 15 75% 5 25% 2006 12 67% 6 33% 2007 10 67% 5 33% 2008 12 80% 3 20%	21	19%	4	81%	17	2003
2006 12 67% 6 33% 2007 10 67% 5 33% 2008 12 80% 3 20%	22	14%	3	86%	19	2004
2007 10 67% 5 33% 2008 12 80% 3 20%	20	25%	5	75%	15	2005
2008 12 80% 3 20%	18	33%	6	67%	12	2006
	15	33%	5	67%	10	2007
2009 19 90% 2 10%	15	20%	3	80%	12	2008
	21	10%	2	90%	19	2009
2010 13 81% 3 19%	16	19%	3	81%	13	2010

Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Table 8. People diagnosed with HIV infection by race/ethnicity and year of diagnosis: Cambridge, Massachusetts¹, 2001–2010²

	White	NH	Black	NH	Hispanic/ Latino		API		Total ³
	N	%	N	%	N	%	N	%	N
2001	6	32%	10	53%	4	 ⁴	4	4	19
2002	7	50%	6	43%	4	4	4	 ⁴	14
2003	8	38%	11	52%	4	4	4	 ⁴	21
2004	11	50%	8	36%	 ⁴	 ⁴	4	 ⁴	22
2005	8	40%	9	45%	4	4	4	4	20
2006	7	39%	5	28%	4	4	4	 ⁴	18
2007	5	33%	5	33%	4	4	4	4	15
2008	6	40%	7	47%	4	4	4	4	15
2009	10	48%	7	33%	4	4	4	4	21
2010	5	31%	9	56%	4	4	4	4	16

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

NH = Non-Hispanic

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999. Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

³ Totals include American Indian/Alaskan Native individuals and those of other or undetermined race/ethnicity.

⁴ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/12

Table 9. People diagnosed with HIV infection by place of birth and year of diagnosis: Cambridge, Massachusetts¹, 2001–2010²

	US		Puerto US Depen	•	Non-	·US	Total
	N	%	N	%	N	%	N
2001	11	58%	0	0%	8	42%	19
2002	7	50%	0	0%	7	50%	14
2003	9	43%	0	0%	12	57%	21
2004	14	64%	4	4	4	4	22
2005	11	55%	0	0%	9	45%	20
2006	10	56%	0	0%	8	44%	18
2007	10	67%	4	4	4	4	15
2008	7	47%	4	4	4	4	15
2009	13	62%	0	0%	8	38%	21
2010	11	69%	0	0%	5	31%	16

Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Ninety-eight percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, <1% were born in Guam and 1% were born in an unknown dependency.

⁴ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Table 10. People diagnosed with HIV infection by exposure mode and year of diagnosis: Cambridge, Massachusetts¹, 2001–2010²

MS	SM	IDU	J	MS ID		нт	SX	Oth	ner	Pre HTS			eter- ned ⁴	Total
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2001 7 2002 7 2003 7 2004 10 2005 12 2006 9 2007 7 2008 8 2009 10 2010 7	37% 50% 33% 45% 60% 50% 47% 53% 48%	-5 -5 0 -5 -5 -5 -5 -5	5 5 0% 5 5 5 5 5	0 0 0 0 5 0 0 5 0 5 5	0% 0% 0% ⁵ 0% 0% ⁵ 0% ⁵	5 5 5 5 5 5 5 0	5 5 5 5 5 5 5 5 0%	⁵ 0 ⁵ 0 0 0 0 ⁵	⁵ 0% ⁵ 0% 0% 0% ⁵ 0% 0% ⁵ 0%	5 5 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7	26%55555555	5, 5, 8 55, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	⁵ ⁵ 38% 23% ⁵ ⁵ ⁵ ⁵ 24%	19 14 21 22 20 18 15 15 21

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁴ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁵ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Table 11. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by year of diagnosis: Cambridge, Massachusetts¹, 2001–2010²

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Year:	N	N	%
2001	4	19	21%
2002	5	14	36%
2003	9	21	43%
2004	7	22	32%
2005	6	20	30%
2006	6	18	33%
2007	5	15	33%
2008	4	15	27%
2009	9	21	43%
2010	3	16	19%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

before being reported in Massachusetts.

Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999. Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/12

Table 12. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by gender, race/ethnicity, and place of birth: Cambridge, Massachusetts, ¹ 2008–2010²

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Gender:	N	N	%
Male Female	13 3	44 8	30% 38%
Race/Ethnicity:	N	N	%
White (non-Hispanic) Black (non-Hispanic) Hispanic/Latino Asian/Pacific Islander Other/Undetermined ³	7 7 ⁵ ⁵ ⁵	21 23 ⁵ ⁵ ⁵	33% 30% ⁵ ⁵ ⁵
Place of Birth:	N	N	%
US Puerto Rico/US Dependencies ⁴ Non-US Total	⁵ ⁵ 9 16	⁵ ⁵ 19 52	⁵ ⁵ 47% 31%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999. ³ Includes American Indian/Alaska Native, other and unspecified race/ethnicity.

⁴ Ninety-eight percent of people diagnosed with HIV infection from 2008–2010 who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, 1% were born in Guam and 1% were born in an unknown dependency.

dependency.

⁵ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12